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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



## PATENT COOPERATION TREATY

## **PCT**

REC'D	3 1	MAY 2005
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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Amilianda mandi 22						
Applicant's or agent's file reference PAKIST03580	FOR FURTHER ACTION	CTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date(day/m		Priority date (day/monta	h/year)		
PCT/KR2003/002937	31 DECEMBER 2003 (	31.12.2003)	25 JANUARY 2003 (2	25.01.2003)		
International Patent Classification (IPC IPC7 H04B 13/00	or national classification and IF	С				
Applicant				<del>`</del>		
KOREA INSTITUTE OF SCI	ENCE AND TECHNOL	OGY et al				
This international preliminary early and is transmitted to the applicant.  This REPORT consists of a total  This report is also accomp	of sheets, inclu	ding this cover sh	èet.			
70.16 and Section 607 of the	e Administrative Instructions un	tamina rectificati	ons made before this Au	thority (see Rule		
These annexes consist of a total	ofsheets.	·				
3. This report contains indications r	elating to the following items:					
I Basis of the report						
II Priority						
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  IV Lack of unity of invention						
Ciations and explain	t under Article 35(2) with regard ations supporting such statement	to novelty, inven	tive step or industrial app	licability;		
VI Certain documents						
VII Certain defects in th	e international application					
VIII Certain observations	on the international application		·			
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Date of submission of the demand						
or the deliming	. Date	of completion of	his report			
19 AUGUST 2004 (1	9.08.2004)	17 MAY 2005	5 (17.05.2005)			
Name and mailing address of the IPEA/	CR Auth	orized officer				
Korean Intellectual Property 920 Dunsan-dong, Seo-gu, Republic of Korea	Office	UHM, In Kwon				
Facsimile No. 82-42-472-7140	Telep	hone No. 82-42-	481-5712	CICIO <sup>N</sup>		



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No. PCT/KR2003/002937

1	I. Bas	is of the report
		regard to the elements of the international application:*
1		
		the international application as originally filed
-1	Щ	the description:
		pages, as originally filed pages, filed with the demand
ł		pages, filed with the demand
		the claims:
	·	pages, as originally filed
pages, as amended (together with any statment) und pages, filed with the letter of		
1		the drawings:
- 1		
-		pages, as originally filed pages, filed with the demand
-		filed with the letter of
	Ш	the sequence listing part of the description.
	٠.	pages
1.	. •	pages
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2.	With	regard to the language all the elements much at a
1.	Thes	nternational application was filed, unless otherwise indicated under this item.
1		were available or lumished to this Authority in the following language
1		the language of a translation furnished for the purposes of international search (under Pule 22 16).
1	$\sqcup$	the language of publication of the international application (under Rule 48.3(b))
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/
3.	With prediction of the control of th	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international iminary examination was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.  furnished subsequently to this Authority in computer readable form  The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applications as filed has been furnished.
	<b>₩</b>	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.	Ш	The amendments have resulted in the cancellation of:
		the description, pages the claims, Nos.
		the claims, Nos.
		the drawings, sheets
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**
* R ii a	Replace n this ( and 70	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to printer printer printer and are not annexed to this report since they do not contain amendments (Rules 70.16).
** A	iny rep	placement sheet containing such amendments must be referred to under item I and annexed to this report.
orm :	PCT/I	PEA/409 (Box I)(July 1998)

### INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.
PCT/KR2003/002937

V Reasoned statement under Auti-Lagran til	
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step citations and explanations supporting such statement	n or industrial applicability
citations and explanations supporting such statement	p or industrial applicability;
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1.	Statement			
	Novelty (N)	Claims Claims	1-42	YES
	Inventive step (IS)	Claims	2, 11-42	NO
		Claims	1,3-10	YES
	Industrial applicability (IA)	Claims	1-42	NO
	•	Claims		YES
		Ciallis		NO

Citations and explanations (Rule 70.7)

The following documents are referred to:

D1 = KR10-1999-008428 A(1999.01.25).

D2 = JP10-234675 A(1998.09.08).

#### Novelty .

None of the above documents reveal the same configuration of generating and inducing electric potential difference between electrodes as described in the claims. Therefore, the invention according to claims 1-42 is considered to be novel.

### Inventive step

D1 discloses a system for non-contact sensing and signalling using human body as signal transmission medium.

D2 reveals a polarization communication equipment for living body.

Claims 1, 3-10 relate to a method and system for data communication in human body, wherein a current generated from the sensor flows through the human body as a conductor to transmit data to the outside of the human body.

Claims 1, 3-10 of the present invention compared with each of D1,

the invention according to claim 1, 3-10 is similar to D1 in that a transmitter produces displacement currents into and from the body of a user, which works as a conducting node. But the above two inventions are a little bit different from each other in that this invention includes further a step transmitting a signal from a sensor which is put in the human body to the outside of the human body. It is, however, disclosed clearly in D2 of which the abstract and claims teach enabling whole dual communicating between inside and outside the human body.

Therefore, claims 1, 3-10 of the present invention lack an inventive step under Article 33(3) as being obvious over D1 in view of each of D2.

### Industrial Applicability

The subject matter of claims 1-42 fulfills the requirements of Article 33(4) PCT because it is useful.